Index of Claims

| Application No. | Applicant(s)       |
|-----------------|--------------------|
| 10/699,621      | SHACKELFORD ET AL. |
| Examiner        | Art Unit           |
| Joseph Valenza  | 3651               |

| √. | Rejected | _ |
|----|----------|---|
| 11 | Allowed  | ÷ |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla  | aim        | Γ.   |              |  | 1  | Dat  | е   |          |                 |          | ::::[        | Cla      | aim      |  |          |          | C              | ate           |         |  |             | :::[         | Cla      | aim      |            |          |           | Date   | е  |                |          |          |
|--|------------|--|--------------|--|--|--|---|----------|-----------------|----------|--------------|----------|----------|--|----------|----------|----------------|---------------|---------|--|-------------|--------------|----------|----------|------------|----------|-----------|--|--|----------------|----------|----------|
|  | <u> </u>   | 90   | 1            |  |  |  |   |          |                 |          |              |          |          |  |          |          | П              |               |         | П  |             |              |          |          |            |          | T         |  |  |                | Ī        |          |
| Final  | Original   | 1  | 1            |  |  |  |   |          | Ιİ              |          |              | Final    | Original |  |          |          |                |               |         | 1 1  |             | :::          | ल        | Original |            |          |           |  |  |                |          |          |
| iĒ   | į          |  | }            | ŀ  |  |  |   |          |                 |          |              | 듄        | Γġ       |  |          |          |                |               |         | 1 1  |             |              | Final    | į        |            |          |           |  |  |                |          |          |
|  | 0          | 12/61  |              |  |  |  | ŀ   |          | H               |          |              | _        | 0        |  |          |          |                |               |         | 1 1  |             |              |          | 0        |            |          |           |  |  |                |          |          |
| 1  | (1)        | =  |              | _  | <del>                                     </del> | $\vdash$   | $\vdash$  | Н        | -               | ⊣        |              |          | 51       | 1  | Н        | $\dashv$ | +              |               | +       | 1 1  |             | :::          |          | 101      | $\dashv$   | +        | +-        | ╁  | -  | $\dashv$       | -        |          |
| 2  | 2          | -  | ╁            | $\vdash$   |  | $\vdash$   | $\vdash$  | Н        | Н               | $\dashv$ |              |          | 52       | <del>                                     </del> | Н        | -        | $\dashv$       |               | +       | 1  | $\dashv$    | ::: <b> </b> | -        | 102      | $\dashv$   | +        | +-        | ╁  | -  | -              | -        | _        |
| 3  | 3          | ╫  | ╁╌           | <del>                                     </del> | ┢  | ┢  | ⊢   | Н        | $\vdash$        | $\dashv$ |              |          | 53       | -  | -        | $\dashv$ | $\dashv$       |               | +       | +  | -4:         | }            | -        | 103      | $\dashv$   | +        | ╁         | ╁  | -  | -+             |          |          |
| 4  | 4          | Н  | ├            | -  | ⊢  | ┢  | ╁   | Н        | $\vdash$        | $\dashv$ |              |          | 54       | -  |          |          | $\dashv$       |               | +       | 1  |             | ::: <b>!</b> |          | 103      | $\dashv$   | +        | 1         | -  | _  | -              |          |          |
| 5  | 5          | ₩  | ⊢            | -  |  | ├  | ├   | Н        | $\vdash$        | -        |              | -        | 54       |  | Н        |          | -              |               |         | +  |             |              |          | 104      | $\dashv$   | +        | +         | ₩  | _  | $\dashv$       | _        |          |
|  |            | ₩  | ⊢            | -  | -  | ├  |   | -        | $\vdash$        | $\dashv$ |              |          | 55       | <b>!</b>   | -        |          |                | -             | - -     | ╀  |             |              |          | 105      | -          | -        | -         | ╀  |  | $\vdash$       |          | _        |
| 6  | 6          | #  | _            |  | -  | -  | -   | Ш        | $\vdash \vdash$ | 4        |              |          | 56       | <u> </u>   |          | _        |                |               |         | $\vdash$   | -48         |              |          | 106      | -          |          | -         | ╀  |  | $\vdash$       | _        |          |
| 7  | 7          | ╨  | ⊢            |  | <u> </u>   | ⊢  | ├   |          | <u> </u>        |          |              |          | 57       |  |          | _        | 4              | $\dashv$      | -       | <del>                                     </del> | _           |              |          | 107      |            | <u> </u> | 4_        | <u> </u>   | _  | $\sqcup$       | 4        |          |
| 8  | 8          | ₩.   | ┞            |  | <u> </u>   | ┝-   | ┞   |          |                 | _        | . :-         |          | 58       | _  |          |          | $\dashv$       | _             | -       | <del>                                     </del> | -10         |              |          | 108      |            |          | 4_        | ↓  |  | $\sqcup$       | _        |          |
| 9  | 9          | Щ_   | <u> </u>     |  | _  | _  | L   |          | $\sqcup$        |          |              |          | 59       |  |          |          | _              | $\perp$       | _       |  | :           | ۱.           |          | 109      | _          | $\perp$  | 4_        | <u> </u>   |  |                | _        |          |
| 10   | 10         | Щ_   | <u> </u>     | _  | <u> </u>   | L  | Ш   |          | $\sqcup$        | _        |              |          | 60       |  | Ш        |          | _              |               |         | Ш.   | ;           |              |          | 110      | _          |          | $\perp$   | <u> </u>   | $ldsymbol{ld}}}}}}$ |                | _        |          |
| 11   | 11         | 11_  | <u> </u>     |  | _  | $ldsymbol{oxed}$                                 |   |          | Ш               | [        |              |          | 61       | $oxed{oxed}$                                     |          |          | _              | $\perp$       |         | $\sqcup \bot$                                    | _ :         |              |          | 111      |            |          |           | ot   |  |                |          |          |
| 12   | 12         | Щ  | ļ            |  |  | $oxed{oxed}$                                     | Ш   |          | Ш               |          | :::[         |          | 62       |  |          |          |                |               |         | $\sqcup \bot$                                    | _ `         |              |          | 112      |            |          |           | 1_   |  |                |          |          |
| 13   | 13         | Ш  | 1            |  | L_   | <u> </u>   |   |          | Ш               |          | :::l         |          | 63       | L  |          | $\sqcup$ |                |               |         | $\sqcup \bot$                                    |             | .::[         | ]        | 113      |            |          | $\perp$   |  |  |                |          |          |
| 14   | 14         | Ш  |              |  |  |  | $oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}$ |          |                 | _]       | : .:[        |          | 64       |  |          |          |                |               |         | $\prod$  | _]:         |              |          | 114      | $\Box$     |          | ╧         | L  |  | $\Box$         | $\Box$   |          |
| 15   | 15         |  |              |  |  |  |   |          |                 |          |              |          | 65       |  |          |          |                | $\Box \Gamma$ |         |  | _]:         |              |          | 115      |            |          |           |  |  |                |          |          |
| 16   | 6          | П  |              |  |  |  |   |          |                 |          |              |          | 66       |  |          |          |                |               |         | П  | <b>-</b>    | [            |          | 116      |            |          |           | Т  |  |                | $\neg$   |          |
| 17   | 17         | IT   | Γ            |  |  |  |   |          |                 | $\neg$   |              |          | 67       |  |          |          | $\neg \dagger$ | $\neg$        | 7       |  |             |              |          | 117      |            | $\neg$   | T         |  |  |                | 寸        |          |
| 18   | 18         | П  | Τ            |  | Ī  | Ī  | İ   |          |                 |          |              |          | 68       |  |          | $\neg$   | T              |               | $\top$  | 1-1-   | 1           | :::I         |          | 118      |            | $\neg$   | $\dagger$ |  |  |                | _        | ┪        |
| 19   | 19         | П  | <b>—</b>     |  | I  | T  | T   |          | $\Box$          | ┪        |              |          | 69       |  | $\Box$   | $\dashv$ | $\dashv$       | T             | +       |  | -           |              | $\neg$   | 119      |            | +        | 1         | <del>                                     </del> |  |                | $\dashv$ | 一        |
| 20   | 20         | H  | ┢            | $\vdash$   | $\vdash$   | t  |   |          | $\Box$          | ╗        |              |          | 70       | $\vdash$   |          | $\dashv$ | $\dashv$       | $\dashv$      | +-      | <del>                                     </del> | -           |              | $\neg$   | 120      | $\dashv$   | +-       | +         | +  | Н  | -              | 7        | $\dashv$ |
| 21   | 21         | $\vdash$   | <del> </del> |  | ┪  | <del>                                     </del> |   | $\vdash$ | $\dashv$        | $\dashv$ |              |          | 71       | $\vdash$   | $\dashv$ | -        | +              | +             | +       | $\vdash$   | - :         | 4            | +        | 121      | $\dashv$   | +-       | 1—        | ╁  | $\vdash$   | $\dashv$       | $\dashv$ | $\dashv$ |
| 22   | 22         | H  |              |  | ┢  | ┢  | $\vdash$  | $\vdash$ | $\vdash$        | $\dashv$ |              |          | 72       | -  |          | $\dashv$ | $\dashv$       | $\dashv$      | +       | ╁  | -{::        |              |          | 122      | $\dashv$   | +-       |           | ┼  |  | -+             | $\dashv$ | $\dashv$ |
| 23   | 23         | Н  | ╁            | Н  | -  | -  | -   |          | $\vdash$        | ⊣        |              | -        | 73       | ┥  | $\dashv$ | $\dashv$ | $\dashv$       | +             | +       | $\vdash$   | ::          | ::: -        | -        | 123      | +          | +        | ╂         | ╁  |  |                | -        | $\dashv$ |
| 24   | 23<br>(24) | +  | ╁            | $\vdash$   | _  |  | -   | -        |                 | $\dashv$ |              |          | 74       | $\vdash$   | -        |          | $\dashv$       | +             | +       | ╁  |             | -            |          | 124      | $\dashv$   | -        | +         | ├  |  |                | -        | ᅱ        |
| 25   | 25         | ╫  | ├            | Н  |  |  |   | -        |                 | ᅱ        |              |          | 75       | $\vdash$   | -        |          | +              | +             | +       | $\vdash$   |             | ii-          |          | 124      | +          | +        | -         | -  |  |                |          | ᅱ        |
|  | 20         | -  | ├            | $\vdash$   | _  | -  |   | Н        | -               | 닉        |              |          |          | Н  |          |          | -+             | +             | +       | ┨  | -1:         | -            |          | 125      | -+         | +        | +         | $\vdash$   | -  | $\dashv$       |          |          |
| 26   | 26         | Н-   | ├_           |  | <u> </u>   | -  |   |          |                 |          |              |          | 76       | Ш  | -        |          | 4              |               |         | $\vdash$   | <u>ا:</u> : | -            |          | 126      |            | - -      | +         | <u> </u>   |  | $\vdash$       | -        | 괵        |
| 27   | 27         | ₩  | ⊢            | <u> </u>   | <u> </u>   | -  | _   |          |                 |          |              |          | 77       | Ш  |          | -        | -              | -             | -       | $\vdash \vdash$                                  | -4:         | -            |          | 127      | -          |          | ╄         |  |  | $\vdash$       | _        |          |
| 28   | 28         | Щ.   | ▙            |  | _  |  | Ц   |          | $\sqcup$        |          |              |          | 78       | Ш  |          |          | 4              |               | -       | $\sqcup$   | _[:         |              |          | 128      |            | _ _      | ↓         |  |  | $\Box$         | _        |          |
| 29   | 29         | Щ.   | <u> </u>     | Ш  | L  | <u> </u>   |   |          |                 |          |              |          | 79       | Щ  | $\Box$   |          | $\dashv$       | $\bot$        |         | _  | _ :         |              |          | 129      | _          | _        | <u> </u>  | _  |  |                | _        | _        |
| 30   | .30        | Щ  | <u> </u>     | Ш  |  | <u> </u>   |   |          |                 |          |              |          | 80       |  |          |          | _              |               |         |  | _           |              |          | 130      | _          |          |           |  |  | $\perp$        |          |          |
| 31   | 31         | Ц_   | _            |  |  |  |   |          | $\blacksquare$  |          |              |          | 81       |  |          |          | _              |               |         |  | :           |              |          | 131      |            |          |           |  |  | L              |          |          |
| 32   | (2)        | Щ_   | 匚            |  |  |  |   |          |                 |          | :-: L        |          | 82       |  |          | $\Box$   |                |               |         |  |             | ျ            |          | 132      |            |          | L         |  |  | _]             | $\Box$   |          |
| 33   | 33         | Ш  |              |  |  |  |   |          |                 |          | [            |          | 83       |  | I        |          | $\Box$         | $\Box$        |         |  | _]:         | ſ            |          | 133      | $_{\perp}$ |          | $I^{-}$   |  |  | T              | _T       |          |
| 34   | 34         | Ш  | L            |  |  |  |   |          |                 | J        | :            |          | 84       |  |          | ot       |                | $\Box \Gamma$ | $\perp$ |  | _]:         | ٦.           |          | 134      | $\Box$ T   |          |           |  |  |                | $\neg$   |          |
| 35   | 35         |  |              |  |  | L  |   |          |                 | ┚        | _ [          |          | 85       |  |          | $\Box$   | _]             |               | $\perp$ |  | _]:         |              |          | 135      | T          |          |           |  |  |                | T        |          |
|  | 36         |  |              |  |  |  |   |          |                 |          |              |          | 86       |  | _7       | T        | _T             |               | Ī       |  |             | - [          |          | 136      |            |          |           |  |  |                | $\dashv$ | $\neg$   |
|  | 37         |  |              |  |  |  | П   |          | $\Box$          | $\neg$   |              |          | 87       | П  | 一        | $\neg$   | $\neg$         | 7             |         | П  | 7           | 1            |          | 137      | 寸          |          | Т         | П  |  | $\neg$         | 一        |          |
|  | 38         |  |              |  |  | Ī  | П   | $\neg$   |                 | $\neg$   | ا: ۱         |          | 88       | П  | $\dashv$ | $\neg$   | $\dashv$       |               | $\top$  | $\sqcap$   | 1           | .            |          | 138      | $\dashv$   | $\top$   | T         | П  | $\Box$   | 寸              | _        | $\dashv$ |
|  | 39         |  | П            | П  |  | Π  |   |          | $\dashv$        | $\neg$   |              |          | 89       | $\Box$   | $\neg$   | $\dashv$ | $\dashv$       | 1             | _       | 1-1  | 一:          | ŀ            |          | 139      | $\dashv$   |          | 1         | $\vdash$   |  | $\neg \dagger$ | $\dashv$ | $\dashv$ |
|  | 40         |  |              | П  |  |  | П   | $\dashv$ | 7               | $\neg$   | - 1          |          | 90       | $\Box$   | _        | 十        | _              | -             | +       | $\vdash$   | $\dashv$    | +            |          | 140      | $\dashv$   | $\top$   | +         | 1-   | $\vdash$   | -+             | $\dashv$ | $\dashv$ |
|  | 41         |  | $\vdash$     |  | _  |  | H   | $\dashv$ | $\dashv$        | $\dashv$ | <del> </del> | _        | 91       | H  | _        | 十        | $\dashv$       | 十             | +       | $\vdash$   | <b>⊣</b> ∷  | ÷ŀ           |          | 141      | $\dashv$   | +        | $\vdash$  | H  |  | $\dashv$       | $\dashv$ | ᅱ        |
| <b> </b>   | 42         |  |              | H  | _  | $\vdash$   |   | $\dashv$ | $\dashv$        | $\dashv$ | ी            |          | 92       | H  | -        | +        | +              | +             | +       | $\vdash$   | ⊢։          | 1            |          | 142      | +          | +        | +         | $\vdash$   | $\vdash$   | $\dashv$       | +        | $\dashv$ |
| _  | 43         | <del>                                     </del> | Н            | H  |  | $\vdash$   | H   | $\dashv$ | -               | $\dashv$ | - :}         | -        | 93       |  | $\dashv$ | $\dashv$ | +              | +             | +       | <del>                                     </del> | ⊣։          | . }          | $\dashv$ | 143      | $\dashv$   |          | +-        | $\vdash$   | $\vdash$   | $\dashv$       | +        | $\dashv$ |
| $\vdash$   | 44         | ┢  |              | $\vdash$   | Η,   |  | $\vdash$  | $\dashv$ | $\dashv$        | $\dashv$ | • }          | $\dashv$ | 94       | $\vdash$   | $\dashv$ | -+       | $\dashv$       | +             | +       | $\vdash$   | —։          |              |          | 144      | +          | +        | +-        | $\vdash$   |  | -              | $\dashv$ | 긤        |
| <u> </u>   | 45         |  | $\vdash$     | $\vdash$   | Н  | -  | Н   | -        | $\dashv$        | $\dashv$ | : -          |          | 95       | $\vdash$   | $\dashv$ | $\dashv$ | +              | +             | +       | $\vdash \vdash$                                  |             | 1            |          |          | -          | +        | +         | Н  | $\vdash$   | -+             | $\dashv$ | {        |
| <del>                                     </del> | 46         | -  | Н            | $\vdash$   |  | -  |   |          | $\dashv$        | 4        | : - <b> </b> |          | 96       | $\vdash$   | $\dashv$ | +        | +              |               | +       | ⊢  | -1:         | -}           |          | 145      | -+         |          | +         | $\vdash$   | -  | -              | -        | {        |
| <del> </del>                                     |            | <u> </u>   | $\vdash$     | $\vdash$   | H  | -  |   |          | -               | -        | :::}         | -        |          | $\vdash \vdash$                                  |          | -+       | +              |               | +-      | ├-┼-   | -4∷         | : -          |          | 146      | +          |          | +         | $\vdash$   | $\sqcup$   | $\dashv$       | -        | ᆜ        |
| <del>                                     </del> | 47         | <u> </u>   | $\vdash$     | $\vdash$   |  | $\vdash$   | $\vdash \vdash$   |          | -+              |          |              | $\dashv$ | 97       | $\vdash \vdash$                                  |          |          | -+             |               | +       | $\vdash \vdash$                                  | -4:         | ŀ            |          | 147      | +          | +        | 4-        | $\vdash$   |  | _              | $\dashv$ | ᆜ        |
| ├─┤  | 48         | <b> </b>   | $\vdash$     |  | $\vdash$   | $\vdash$   | Н   | _        | $\dashv$        | 4        | ::           |          | 98       | $\vdash \vdash$                                  | _        | $\dashv$ | 4              | _ _           | +       | $\vdash \vdash$                                  | 4.          | : -          |          | 148      | $\perp$    | +        | +-        | $\sqcup$   |  | _              | $\dashv$ | 4        |
|  | 49         | <u> </u>   | $\vdash$     | $\square$  | Ш  | $\vdash$   | Н   | _        | 4               | 4        | :::          |          | 99       | $\square$  | _        | +        | 4              | _ _           | +       | $\vdash \vdash$                                  | 4:          | :            |          | 149      | _          | $\bot$   | _         | Ш  |  | _              | _        | _        |
|  | 50         | L.,  | oxdot        |  | L.   |  |   |          | $\perp 1$       |          | [            |          | 100      |  |          |          |                |               |         | $\perp \perp$                                    | ::          | [            |          | 150      |            |          | i         | ı  |  |                |          | - 1      |